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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 6

**Complete If Known**

Application Number	10/027,400
Filing Date	December 19, 2001
First Named Inventor	Lewis Thomas Williams
Group Art Unit	1646
Examiner Name	Unassigned
Attorney Docket Number	02307K-026726US

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**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
AA	4,766,073			Murray et al.	08/1988	

**FOREIGN PATENT DOCUMENTS**

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AB		0 325 224			EPO	07/1989	
AC		0 327 369			EPO	08/1989	
AD		90/10013			PCT	09/1990	

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AE	ANDERSON et al., "Binding of SH2 Domains of Phospholipase C $\gamma$ 1, GAP, and Src to Activated Growth Factor Receptors," <i>Science</i> , 250:979-982 (1990).	
	AF	BELL, et al., "Effect of Platelet Factors on Migration of Cultured Bovine Aortic Endothelial and Smooth Muscle Cells," <i>Circulation Research</i> , 65(4):1057-1065.	
	AG	BETSHOLTZ et al., "Coexpression of a PDGF-like Growth Factor and PDGF Receptor in Human Osteosarcoma Cell Line: Implications for Autocrine Receptor Activation," <i>Cell</i> , 39:447-457 (1984).	
	AH	BISHAYEE et al., "Ligand-induced Dimerization of the Platelet-derived Growth Factor Receptor," <i>J. Biol. Chem.</i> , 264(20):11699-11705 (1989).	
	AI	CLAESSEN-WELSH et al., "cDNA cloning and expression of a human platelet-derived growth factor (PDGF) receptor specific for B-chain-containing PDGF Molecules," <i>Mol. Cell. Biol.</i> , 8(8):3476-3486 (1988).	
	AJ	CLAESSEN-WELSH et al., "cDNA cloning and expression of the human A-type platelet-derived growth factor (PDGF) receptor establishes structural similarity to the B-type PDGF receptor," <i>Proc. Natl. Acad. Sci. USA</i> , 86:4917-4921 (1989).	
	AK	COUGHLIN et al., "Role of Phosphatidylinositol Kinase in PDGF Receptor Signal Transduction," <i>Science</i> , 243:1191-1194 (1989).	
	AL	DANIEL et al., "Purification of the platelet-derived growth factor receptor by using an anti-phosphotyrosine antibody," <i>Proc. Natl. Acad. Sci. USA</i> , 82:2684-2687 (1985).	
	AM	DANIEL et al., "Biosynthetic and Glycosylation Studies of Cell Surface Platelet Derived Growth Factor Receptors," <i>J. Biol. Chem.</i> , 262(20):9778-9784 (1987).	

Examiner Signature	<i>Jason J. Jahn</i>	Date Considered	APR 11 08 2004
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First Named Inventor	Lewis Thomas Williams
Group Art Unit	1646
Examiner Name	Unassigned

Attorney Docket Number 02307K-026726US

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<i>AT</i>	AN	ESCOBEDO et al., "Role of Tyrosine Kinase and Membrane-Spanning Domains in Signal Transduction by the Platelet-Derived Growth Factor Receptor," <i>Mol. Cell Biol.</i> , 8(12):5126-5131 (1988).						
	AO	ESCOBEDO et al., "Platelet-derived Growth Factor Receptors Expressed by cDNA Transfection Couple to a Diverse Group of Cellular Responses Associated With Cell Proliferation," <i>J. Biol. Chem.</i> , 263(3):1482-1487 (1988).						
	AP	ESCOBEDO et al., "A PDGF Receptor Domain Essential For Mitogenesis But Not For Many Other Responses to PDGF," <i>Nature</i> , 335:85-87 (1988).						
	AQ	ESCOBEDO et al., "A Common PDGF Receptor Is Activated By Homodimeric A and B Forms of PDGF," <i>Science</i> , 240:1532-1534 (1988).						
	AR	ESCOBEDO et al., "A Phosphatidylinositol-3 Kinase Binds to Platelet-Derived Growth Factor Receptors Through a Specific Receptor Sequence Containing Phosphotyrosine," <i>Molecular and Cellular Biology</i> , 11:1125-1132 (1991).						
	AS	FANTL et al., "Mutations of the Platelet-Derived Growth Factor Receptor that Cause a Loss of Ligand-Induced Conformational Change, Subtle Changes in Kinase Activity, and Impaired Ability to Stimulate DNS Synthesis," <i>Mol. Cell. Biol.</i> , 9(10):4473-4478 (1989).						
	AT	FELDER et al., "Kinase Activity Controls the Sorting of the Epidermal Growth Factor Receptor Within the Multivesicular Body," <i>Cell</i> , 61:623-634 (1990).						
	AU	GIESE et al., "The Role of Individual Cysteine Residues in the Structure and Function of the v-sis Gene Product," <i>Science</i> , 236:1315-1318 (1987).						
	AV	GLENN et al., "Platelet-derived Growth Factor," <i>J. Biol. Chem.</i> , 257(9):5172-5177 (1982).						
	AW	GRAVES et al., "Evidence that a Human Osteosarcoma Cell Line Which Secretes a Mitogen Similar to Platelet-Derived Growth Factor Requires Growth Factors Present in Platelet-Poor Plasma," <i>Cancer Research</i> 43:83-87 (1983).						
	AX	GRONWALD et al., "Cloning and expression of a cDNA coding for the human platelet-derived growth factor receptor: Evidence for more than one receptor class," <i>Proc. Nat'l Acad. Sci. USA</i> , 85:3435-3439 (1988).						
	AY	HART et al., "Synthesis, Phosphorylation, and Degradation of Multiple Forms of the Platelet-derived Growth Factor Receptor Studied Using a Monoclonal Antibody," <i>J. Biol. Chem.</i> , 262(22):10780-10785 (1987).						
	AZ	HART et al., "Two classes of PDGF Receptor Recognize Different Isoforms of PDGF," <i>Science</i> , 240:1529-1531 (1988).						
	BA	HART et al., "Expression of Secreted Human Immunoglobulin/PDGF-Receptor Fusion Proteins Which Demonstrate High Affinity Ligand Binding," <i>Miami Winter Cancer Symposium</i> (1989).						

Examiner Signature

*Jason Shultz*

Date Considered

11/08/2001

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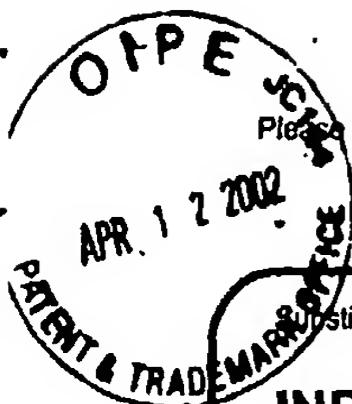
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Group Art Unit	1646
Examiner Name	Unassigned

Attorney Docket Number 02307K-026726US

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2000**FOREIGN PATENT DOCUMENTS**

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AA	HAYNES et al., "Constitutive, long-term production of human interferons by hamster cells containing multiple copies of a cloned interferon gene," <i>Nucl. Acids Res.</i> , 11(3):687-706 (1983).						X	
BC	HEIDARAN et al., "Chimeric $\alpha$ - and $\beta$ -Platelet-derived Growth Factor (PDGF) Receptors Define Three Immunoglobulin-like Domains of the $\alpha$ -PDGF Receptor That Determine PDGF-AA Binding Specificity," <i>J. Biol. Chem.</i> , 265(31):18741-18744.							
BD	HELDIN et al., "Interaction of Platelet-derived Growth Factor with Its Fibroblast Receptor," <i>J. Biol. Chem.</i> , 257(8):4216-4221 (1982).							
BE	HELDIN et al., "Binding of different dimeric forms of PDGF to human fibroblasts evidence for two separate receptor types," <i>EMBO J.</i> , 7(5):1387-1393 (1988).							
BF	HELDIN et al., "Dimerization of B-type Platelet-derived Growth Factor Receptors Occurs After Ligand Binding and Is Closely Associated With Receptor Kinase Activation," <i>J. Biol. Chem.</i> , 264(15):8905-8912 (1989).							
BG	JACOBS et al., "Isolation and Characterization of Genomic and cDNA Clones of Human Erythropoletin," <i>Nature</i> , 313:806-810 (1985).							
BH	KAPLAN et al., "PDGF $\beta$ -Receptor Stimulates Tyrosine Phosphorylation of GAP and Association of GAP with a Signaling Complex," <i>Cell</i> , 61:125-133 (1990).							
BI	KAZLAUSKAS et al., "Different effects of homo- and heterodimers of platelet-derived growth factor A and B chains on human and mouse fibroblasts," <i>EMBO J.</i> , 7(12):3727-3735 (1988).							
BJ	KAZLAUSKAS et al., "Phosphorylation of the PDGF Receptor $\beta$ Subunit Creates a Tight Binding Site for Phosphatidylinositol 3 Kinase," <i>The EMBO Journal</i> , 9:3279-3286 (1990).							
BK	KEATING et al., "Processing of the Platelet-derived Growth Factor Receptor," <i>J. Biol. Chem.</i> , 262(16):7932-7937 (1987).							
BL	KEATING et al., "Autocrine Stimulation of Intracellular PDGF Receptors In-vitro Transformed Cells," <i>Science</i> , 239:914-916 (1988).							
BM	KEATING et al., "Ligand Activation Causes a Phosphorylation-dependent Change in Platelet-derived Growth Factor Receptor Conformation," <i>J. Biol. Chem.</i> , 263(26):12805-12808 (1988).							
BN	KEATING et al., "Platelet-derived Growth Factor Receptor Inducibility Is Acquired Immediately After Translation and Does Not Require Glycosylation," <i>J. Biol. Chem.</i> , 264(16):9129-9132 (1989).							
BO	KIMBALL et al., "Epidermal Growth Factor (EGF) Binding to Membranes Immobilized in Microtiter Wells and Estimation of EGF-Related Transforming Growth Factor Activity," <i>Biochimica et Biophysica Acta</i> , 771:82-88 (1984).							

Examiner Signature	<i>Jason A. Achy</i>	Date Considered	11/08/2001
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Application Number	10/027,400
Filing Date	December 19, 2001
First Named Inventor	Lewis Thomas Williams
Group Art Unit	1646
Examiner Name	Unassigned
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AS	BP	KORNBLUTH et al., "Novel Tyrosine Kinase Identified by Phosphotyrosine Antibodic Screening of cDNA Libraries," <i>Mol. Cell. Biol.</i> , 8(12):5541-5544 (1988).				
	BQ	KYPTA et al., "Association between the PDGF Receptor and Members of the src Family of Tyrosine Kinases," <i>Cell</i> , 62:481-492 (1990).				
	BR	MARX, "Oncogenes Evolve New Cancer Therapies," <i>Science</i> , 249:1376-1378 (1990).				
	BS	MATSUI et al., "Isolation of a Novel Receptor cDNA Establishes the Existence of Two PDGF Receptor Genes," <i>Science</i> , 243:800-804 (1989).				
	BT	MATSUI et al., "Independent expression of human $\alpha$ or $\beta$ platelet-derived growth factor receptor cDNAs in a naive hematopoietic cell leads to functional coupling with mitogenic and chemotactic signaling pathways," <i>Proc. Natl. Acad. Sci. USA</i> , 86:8314-8318 (1989).				
	BU	MORAN et al., "Src homology region 2 domains direct protein-protein interactions in signal transduction," <i>Proc. Natl. Acad. Sci. USA</i> , 87:8622-8626 (1990).				
	BV	MORRISON et al., "Direct Activation of the Serine/Threonine Kinase Activity of Raf-1 through Tyrosine Phosphorylation by the PDGF $\beta$ -Receptor," <i>Cell</i> , 58:849-6 (1989).				
	BW	MORRISON et al., "Platelet-Derived Growth Factor (PDGF) – Dependent Association Phospholipase C- $\gamma$ with the PDGF Receptor Signaling Complex," <i>Mol. Cell. Biol.</i> , 10(5):2359-2366 (1990).				
	BX	NISHIBE et al., "Increase of the Catalytic Activity of Phospholipase C- $\gamma$ 1 by Tyrosine Phosphorylation," <i>Science</i> , 250:1253-1256 (1990).				
	BY	NISTER et al., "A Glioma-Derived PDGF A Chain Homodimer Has Different Function Activities from a PDGF AB Heterodimer Purified from Human Platelets," <i>Cell</i> , 52:791-799 (1988).				
	BZ	ORCHANSKY et al., "Phosphatidylinositol Linkage of a Truncated Form of the Platelet-derived Growth Factor Receptor," <i>J. Biol. Chem.</i> , 263(29):15159-15165 (1988).				
	CA	PERALTA et al., "Primary Structure and Biochemical Properties of an M <sub>2</sub> Muscarinic Receptor," <i>Science</i> , 236:600-605 (1987).				
	CB	QIU et al., "Primary Structure of ckit: relationship with the CSF-1/PDGF receptor kinase family – oncogenic activation of v- <i>kit</i> involves deletion of extracellular domain and C terminus," <i>EMBO J.</i> , 7(4):1003-1011 (1988).				
	CC	REID et al., "Two forms of the basic fibroblast growth factor receptor-like mP are expressed in the developing mouse brain," <i>Proc. Natl. Acad. Sci. USA</i> , 87:1596-1600 (1990).				

Examiner Signature

*Jason M. Hales*

Date Considered

11/08/2001

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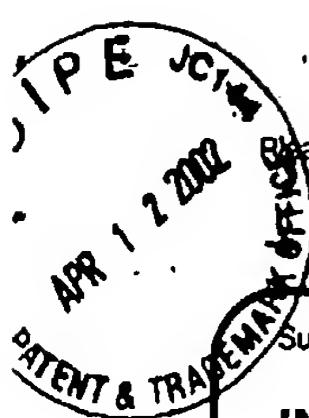
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GW	CD	RONNSTRAND et al., "Purification of the Receptor for Platelet-derived Growth Factor from Porcine Uterus," <i>J. Biol. Chem.</i> , 262(7):2929-2932 (1987).				
	BE	ROUSSEL et al., "Transforming potential of the c-fms proto-oncogene (CSF-1 receptor)," <i>Nature</i> , 325:549-552 (1987).				
	BF	RUTA et al., "A novel protein tyrosine kinase gene whose expression is modulated during endothelial cell differentiation," <i>Oncogene</i> , 3:9-15 (1988).				
	BG	SEIFERT et al., "Two Different Subunits Associate to Create Isoform-specific Platelet-derived Growth Factor Receptors," <i>J. Biol. Chem.</i> , 264(15):8771-8778 (1989).				
	BH	SMITH et al., "Blocking of HIV-1 Infectivity by a Soluble, Secreted Form of the CD4 Antigen," <i>Science</i> , 238:1704-1707 (1987).				
	BI	ULLRICH et al., "Signal Transduction by Receptors with Tyrosine Kinase Activity," <i>Cell</i> , 61:203-212 (1990).				
	BJ	VAN DER SCHAAL et al., "An Enzyme-Linked Lectin Binding Assay for Quantitative Determination of Lectin Receptors," <i>Anal. Biochem.</i> , 140:48-55 (1984).				
	BK	VAN DRIEL et al., "Stoichiometric Binding of Low Density Lipoprotein (LDL) Monoclonal Antibodies to LDL Receptors in a Solid Phase Assay," <i>J. Biol. Chem.</i> , 264(16):9533-9538 (1989).				
	BL	WILLIAMS et al., "Platelet-derived growth factor binds specifically to receptors on vascular smooth muscle cells and the binding becomes nondissociable," <i>Proc. Natl. Acad. Sci. USA</i> , 79:5867-5870 (1982).				
	BM	WILLIAMS et al., "Platelet-derived Growth Factor Receptors Form a High Affinity State in Membrane Preparations," <i>J. Biol. Chem.</i> , 259(8):5287-5294 (1984).				
	BN	WILLIAMS et al., "PDGF Receptors: Structural and Functional Studies," <i>Miami Winter Symposium</i> , ICSU Short Reports, 4:168-171 (1986).				
	BO	WILLIAMS et al., "The Stimulation of Paracrine and Autocrine Mitogenic Pathways by the Platelet-Derived Growth Factor Receptor," <i>J. Cell. Physiol. Supp.</i> , 5:27-30 (1987).				
	BP	WILLIAMS, "Signal Transduction by the Platelet-Derived Growth Factor Receptor," <i>Science</i> , 243:1564-1570 (1989).				
	BQ	WILLIAMS et al., "The Immunoglobulin Superfamily - Domains for Cell Surface Recognition," <i>Ann. Rev. Immunology</i> , 6:381-405 (1988).				
	BR	WILLIAMS, "Stimulation of Paracrine and Autocrine Pathways of Cell Proliferation by Platelet-Derived Growth Factor," <i>Clinical Research</i> , 36(1):5-10 (1988).				

Examiner Signature	<i>Lewis Thomas Williams</i>	Date Considered	11/08/2004
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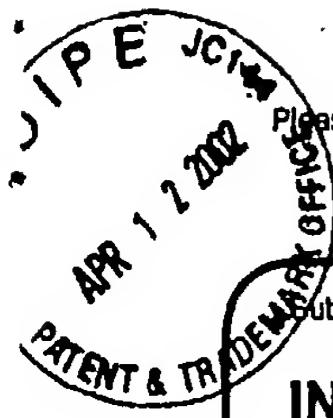
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	BT				WILLIAMS et al., "Signal Transduction by the Platelet-Derived Growth Factor Receptor," <i>CSH Symp. Quant. Biol.</i> , 53:455-465 (1988).		
	BU				YARDEN et al., "Structure of the receptor for platelet-derived growth factor helps define a family of closely related growth factor receptors," <i>Nature</i> , 323:226-232 (1986).		
	BV				YARDEN et al., "Growth Factor Receptor Tyrosine Kinases," <i>Ann. Rev. Biochem.</i> , 57:443-478 (1988).		

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<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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